



MAR BASELIOS CHRISTIAN
COLLEGE OF ENGINEERING & TECHNOLOGY
KUTTIKANAM, PEERMADE



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HANDS-ON SESSION

EXPLORING ARDUINO & IoT WITH SENSOR INTERFACING

Unleashing the power of arduino and IoT for real world applications

SESSION 1

 **18.12.2024 FN**

EXPLORING ARDUINO FROM LED CONTROL TO SENSOR INTERFACING

SESSION 2

 **18.12.2024 AN**

INTRODUCTION TO IoT AND SENSOR INTERFACING WITH DEVELOPMENT BOARD

Session by,

**Jerin K Jayan , Chandru M , S8ECE
Abin Abraham , S6ECE**

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

“Report on the Hands-on Session: Exploring Arduino and IoT with Sensor Interfacing”

PROGRAM DETAILS:

Date: 18th December 2024

Venue: Communication Lab

The Department of Electronics and Communication Engineering (ECE) at MBCCET, Peermade, organized a hands-on session titled Exploring Arduino and IoT with Sensor Interfacing on 18th December 2024 for the **second-year ECE students**. The session provided an excellent opportunity for students to gain practical knowledge and experience in Arduino programming and IoT applications.

The forenoon session focused on introducing the students to Arduino programming, beginning with basic LED control and advancing to sensor interfacing. Skilfully handled by Jerin Jayan and Chandru M, final-year ECE students, the session guided the students through understanding the fundamentals of Arduino hardware and software, writing and uploading programs to control LEDs, and interfacing various sensors with Arduino boards. This interactive session provided the students with the opportunity to design and test their own circuits.

The afternoon session focused on exploring the concepts of IoT and its integration with sensor interfacing using development boards. Conducted by Abin Abraham, a third-year ECE student, this session covered the basics of IoT and its applications, utilizing development boards for IoT projects, and real-time data acquisition and analysis using sensors. The students were introduced to practical IoT implementations and worked on small-scale projects, enhancing their understanding of IoT and sensor interfacing techniques.







